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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/719,736

11/21/2003

Steven R. Sedlmayr

AUO1016

3544

7590

10/18/2004

Law Office of Roxana H. Yang  
P.O. Box 3986  
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EXAMINER

FINEMAN, LEE A

ART UNIT

PAPER NUMBER

2872

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/719,736

Applicant(s)

SEDLMAYR, STEVEN R.

Examiner

Lee Fineman

Art Unit

2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 18 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 157 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 157 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 9/14/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Objections*

1. Claim 157 is objected to because of the following informalities: “the brightness,” “the image,” and “the projector lens” in lines 1-2 lack antecedent basis. Appropriate correction is required.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 157 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kurematsu et al., U.S. Patent No. 5,153,752 in view of Konno et al., U.S. Patent No. 4,497,015.

Kurematsu et al. disclose in fig. 2 a method of producing a modulated beam of visible light ( $P_1$  and  $P_2$ ), comprising: [a] producing a beam of electromagnetic energy ( $S+P$  from 20); [b] separating the beam of electromagnetic energy into two or more separate electromagnetic energy beams (with 21), each of the electromagnetic energy beams having a predetermined orientation of electromagnetic wave field vector ( $S_1$  and  $P_2$ ); [c] passing a plurality of portions of each separated electromagnetic energy beam through a respective one of a plurality of means (25R, 25G, 25B) for changing the orientation of the electromagnetic wave field vector whereby the orientation of electromagnetic wave field vector of the plurality of portions of the electromagnetic energy beams is altered as same passes through the respective one of the

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plurality of means for changing the orientation of electromagnetic wave field vector (column 6, lines 12-20); [d] combining (with 24) the separated electromagnetic energy beams into a single collinear beam of electromagnetic energy without changing the altered orientation of the electromagnetic wave field vector of the plurality of portions of the electromagnetic energy beams (column 7, lines 267-37); [e] producing (with 21 and 23) two segregated electromagnetic energy beams from the collinear beam (S and P), each segregated electromagnetic energy beam having an orientation of electromagnetic wave field vector different from the other electromagnetic energy beam (S and P); [f] locating a projection means (26) such that the distance of the light path between the projection means and each of the plurality of means for changing the orientation of the electromagnetic wave field vector is substantially equal (fig. 2); [g] passing one (P) of the segregated beams of electromagnetic beams of electromagnetic energy to the projection means (26); [h] locating a surface means (screen not shown, column 5, lines 40-41); and [i] passing the one of the segregated beams of electromagnetic energy from the projection means to the surface means (column 5, lines 40-41). Kurematsu et al. disclose the claimed invention except for the beam having a substantially uniform flux intensity substantially across the entire beam and the surface means being up to approximately 10 feet of the projection means. Konno et al. disclose a light illumination device (fig. 5) that produces a beam (at M) which has a substantially uniform flux intensity substantially across the beam of light (column 5, lines 43-52). It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the light source of Kurematsu et al. with that of Konno et al. to have a more uniform intensity light beam and provide a more consistent image. Further, Official Notice is taken that projectors are very well known to be portable for use in rooms and offices. It

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would have been obvious to one of ordinary skill in the art at the time the invention was made to make the surface means be up to approximately 10 feet from the projection means in order to provide projection capability based on the size of the room. Finally, it is noted that the preamble fails to structurally limit the body of claim. Kurematsu et al. in view of Konno et al. meets all of the structural limitations required by the claim in support thereof. As such, Kurematsu et al. in view of Konno et al. must support the brightness of the image increasing as the distance from the projector lens to a screen increases up to a distance of approximately 10 feet in the same way as the structure of the claim.

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lee Fineman whose telephone number is (571) 272-2313. The examiner can normally be reached on Monday - Friday 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



LAF  
October 13, 2004

  
MARK A. ROBINSON  
PRIMARY EXAMINER